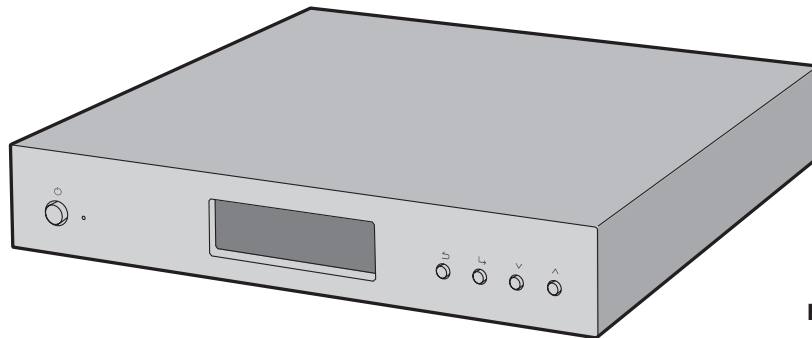
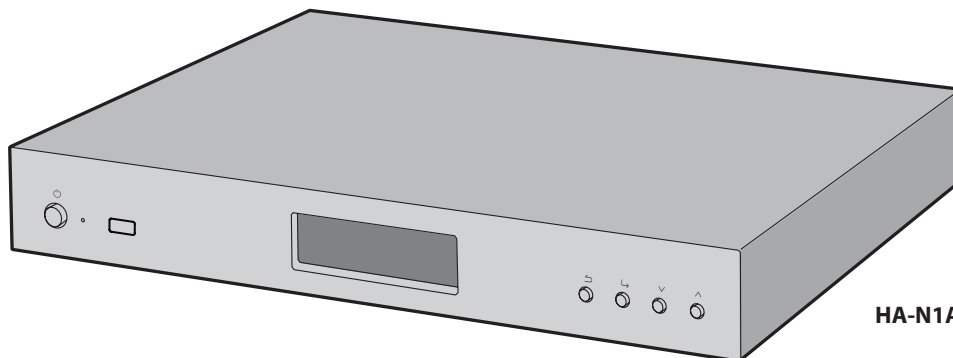


HA-N1

User Manual



HA-N1Z



HA-N1A

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Chapter 1 Getting Started

About MELCO

Melco was established by Makoto Maki in 1975 in Japan. Maki, an enthusiastic audiophile, established the company to design and manufacture the finest audio components of the time - the undoubted masterpiece of the Melco line being the turntable, introduced into the UK in 1980, which set new standards in music reproduction.

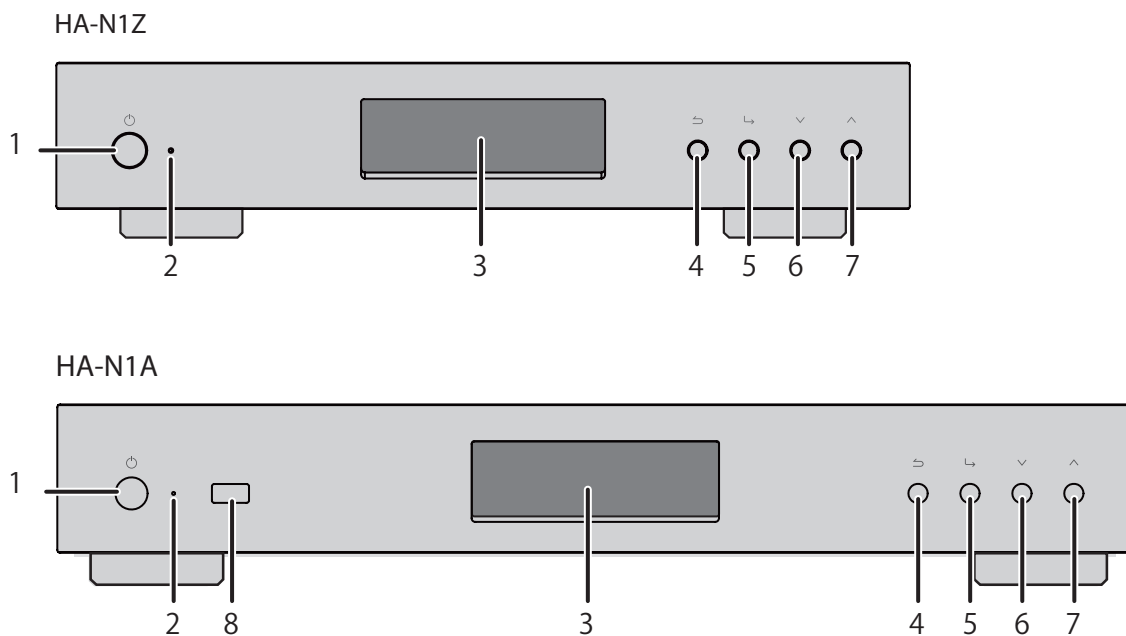
From those early beginnings Melco developed into the largest computer peripherals manufacturer in Japan, offering advanced products based on rigorous R&D, including wireless routers, Ethernet data switches and storage devices such as NAS drives.

Now the company is proud to revive the highly-respected Melco brand, offering discerning audiophiles high technology networked audio components in the spirit of those much revered early Melco products, while incorporating the very latest research into reliable high performance networked devices and storage.

'MELCO' stands for Maki Engineering Laboratory Company.

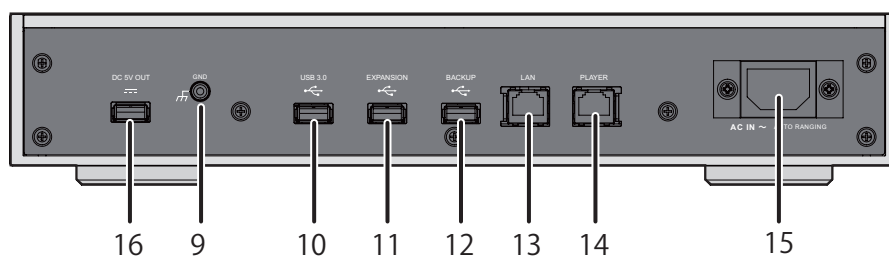
Diagrams

Front

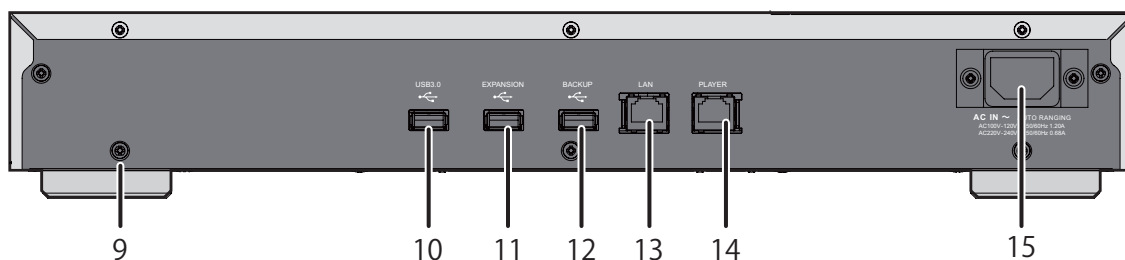


Rear

HA-N1Z



HA-N1A



Press to turn the power on and off.



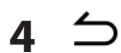
The LED will light up while the HA-N1 is on.

Note: The brightness of the power indicator can be changed from *Settings - Power LED Brightness*.



Displays the device's status and settings. In case of an error, displays the error message and code.

Note: The brightness of the display panel can be changed from *Settings - Brightness*. If the display is set to *Dark Mode*, the display panel will be turned off. If the display is turned off this way, you can press any button in front to relight it.



Back

If you press and hold this button for 2 seconds while at the home screen, the display panel will be turned off.

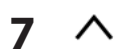


Enter



Scroll down.

To initialize settings, press the power button while holding down the button.



Scroll up.



For importing music files from compatible USB devices.

- 9** GND
Grounding terminal.
- 10** USB 3.0*
For importing music files from compatible USB devices.
- 11** EXPANSION*,**
Connect a compatible USB hard drive or USB flash drive to expand the storage capacity for audio streaming.
- 12** BACKUP*,**
Connect a compatible USB hard drive here to back up or restore the contents or settings of the HA-N1.
- 13** LAN***
Use an Ethernet cable to connect this port to a wireless router, hub, or switch on your network. Then you will be able to access the HA-N1 from computers and mobile devices on your network.
- 14** PLAYER***
This is a dedicated port for Network Audio Players. Use an Ethernet cable to connect this port directly to a Network Audio Player or AV receiver.
Note: If your Network Audio Player is directly connected to the player port, it will not be visible on the network when the HA-N1 is powered off. If this is an issue, connect your Network Audio Player to the router or switch instead.
- 15** AC IN
Use the power cable.
- 16** DC 5V OUT
USB power port (500 mA). Not for data transfer.

Notes:

*The first partition of a connected USB device is mounted. Additional partitions are not recognized.

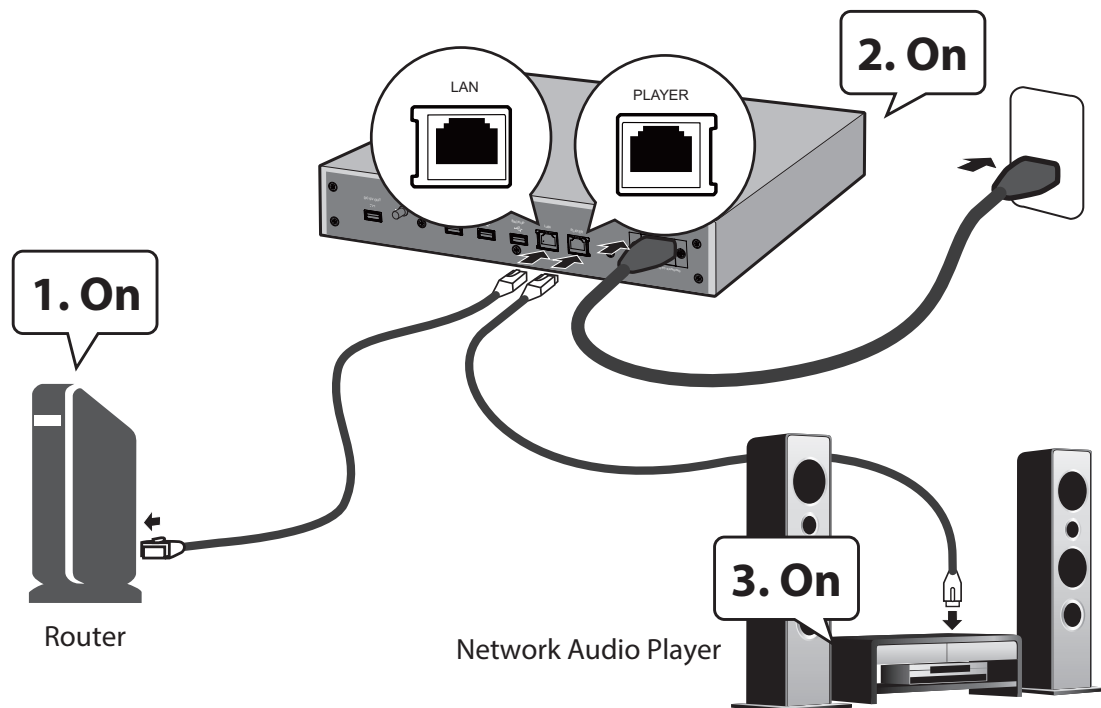
To recognize the whole capacity, connect the USB device to "EXPANSION" or "BACKUP" port, navigate to *Settings - Drive*, select *Format Expansion Drive* or *Format Backup Drive*, and select *Erase All Data* to format all partitions. Please note that all data will be removed with this operation.

**Do not disconnect the external USB drive while the HA-N1 is on. You must turn off the HA-N1 first, then disconnect the drive.

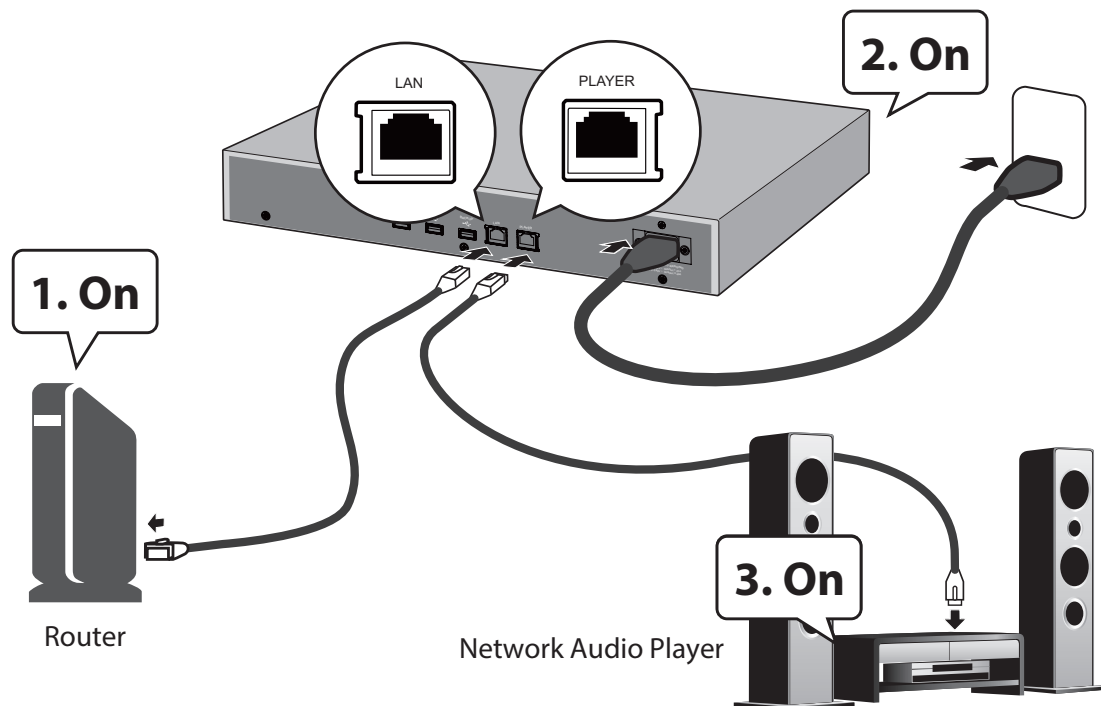
***When the Ethernet cable is connected to the network, the link LED will glow. The act LED shows network activity. On the front display panel, go to *Settings - Rear Side LED* and set to "Off" to extinguish both LEDs.

Installation

HA-N1Z



HA-N1A



Note: Give the HA-N1 plenty of space for airflow. Do not stack it with other devices that get hot.

- 1 Connect the HA-N1's "PLAYER" port and a Network Audio Player with the provided Ethernet cable.
- 2 Connect the HA-N1's "LAN" port and the routers with another Ethernet cable (sold separately).

Note: If directly connecting the Network Audio Player to the HA-N1 without connecting to the router, see the "Direct Mode" section in chapter 3.

- 3 Connect the provided power cable to the outlet.

4 Turn on the router or hub first.

5 Then, power on the HA-N1.

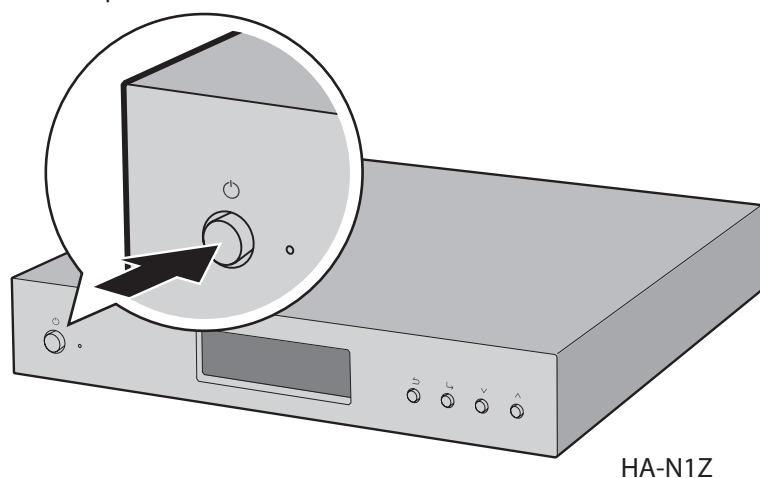
Note: When the HA-N1 is powered down, the device connected to "PLAYER" port will not be recognized.

6 Finally, turn on the Network Audio Player.

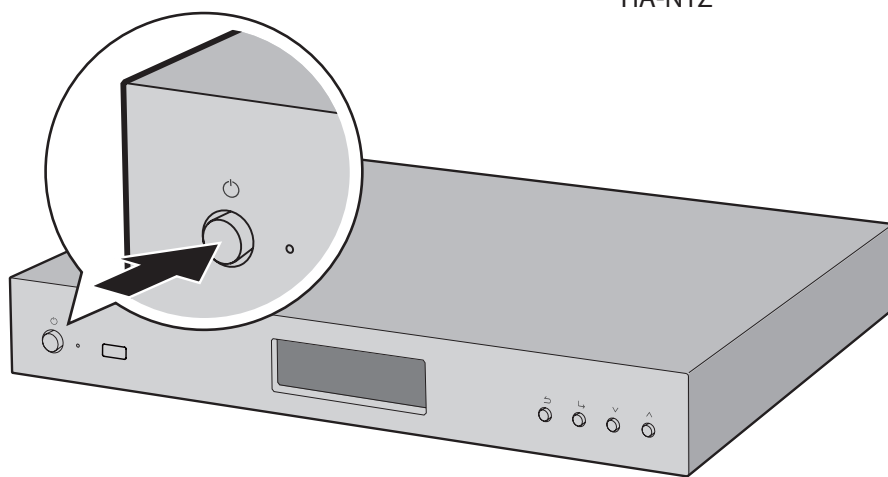
Turning the HA-N1 On and Off

Connect the power cable and press the power button on the front panel to power on the HA-N1. When the home screen (explained in the "Displaying the Home Screen" section in chapter 2) is displayed, the boot process is complete. It will take about 20 seconds to complete.

To power off the HA-N1, press the power button. After 10 seconds, the power indicator will extinguish and the device will be powered off.



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HA-N1A

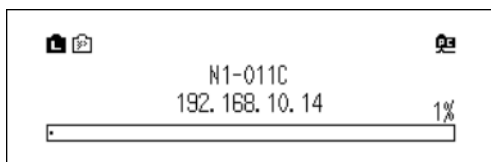
Notes:

- Do not disconnect the power cable without properly powering the device off first. You may lose music files or the HA-N1 may malfunction.
- If connecting the HA-N1 to an amplifier's AC outlet, do not configure the amplifier's power settings to shut down the HA-N1 when the amplifier is powered down.
- To power on again, wait 3 seconds after the power indicator extinguishes, then press the power button.

Chapter 2 Basic Usage

Displaying the Home Screen

Turn on the HA-N1. After it boots, the home screen will be displayed.



The home screen displays the following information:

- Friendly name
Displays the friendly name (hostname) of the HA-N1.
- IP address
Displays the IP address.
- Internal drive usage
Displays the used capacity of the internal hard drive in the HA-N1.



- If the "LAN" port is connected to the router or switch using the Ethernet cable, the  icon will be displayed.
- If the Network Audio Player is connected to the "PLAYER" port, the  icon will be displayed.
- If an external USB device is connected to the "EXPANSION" port, the  icon will be displayed.
- If the shared folders on the HA-N1 are shared for computers (the file sharing is set to "On" from "Settings" - "SMB File Sharing"), the  icon will be displayed.

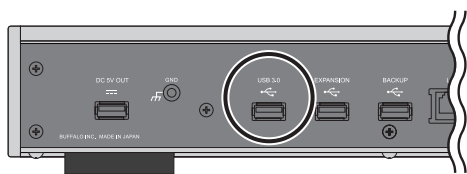
Importing

Importing Music Files from USB Devices

To import music files from a connected USB devices, follow the procedure below.

- 1 Turn on the HA-N1. The home screen is displayed when the HA-N1 is booted.
- 2 Connect the USB device which contains the music files to the port that is not labelled "BACKUP" or "EXPANSION".

HA-N1Z



HA-N1A



Notes:

- Use only the compatible USB devices listed at www.melco-audio.com.

- Connect only NTFS-formatted or FAT32-formatted USB devices.

- 3** When the following screen is displayed on the display panel, press the  button on the front. If you connect the USB device to the front USB port (HA-N1A only), the message will change to indicate importing from the front USB device.

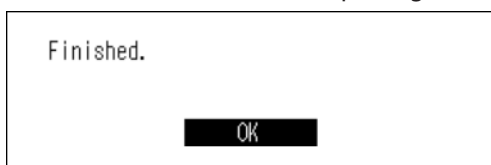


- 4** Wait until music importing is finished.

Notes:

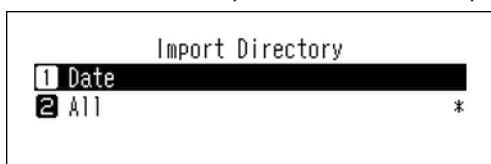
- If a filename or folder name starts with a period (.), the file or folder cannot be imported.
- If the  button is pressed while importing, the import process will be canceled after the HA-N1 finishes importing the current file. If the imported file size is large, the cancellation process may take a few minutes to finish.

- 5** Press the  button after importing finishes.



File importing is now finished.

Note: There are two options to store the imported data in the HA-N1:



"Date" - If you select this option, imported data will be stored in a newly-created folder. The folder name will include the import date. Even if the same data is included in the USB device, it will be copied to the HA-N1.

"All" - If you select this option, data will be imported in the selected shared folder's root directory on the HA-N1. With this option, only files with changes will be imported to the HA-N1. Files with no changes from the previous import will not be imported.

To change these options, go to *Settings - Import Directory* and select from "Date" or "All".

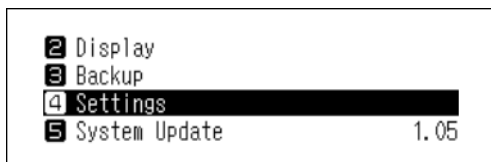
Importing Music Files from a Computer

To import music files from the computer, follow the procedure below.

Enabling File Sharing

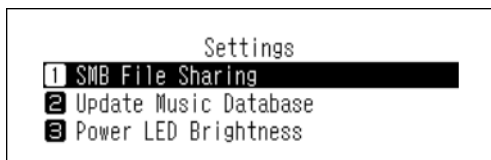
- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button on the front.

- 3** Press  and select "Settings", then press the  button.

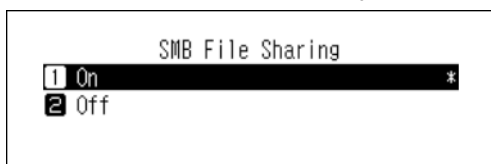


Note: This manual describes using the HA-N1 firmware version 1.05. Depending on the firmware version, the screen layout may be different.

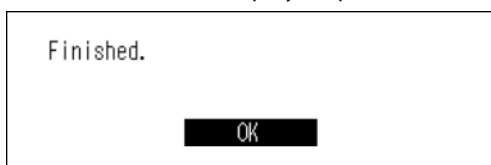
- 4** Press  and select "SMB File Sharing", then press the  button.



- 5** Press  and select "On", then press the  button.



- 6** When "Finished." is displayed, press the  button.



- 7** Press the  button three times to return to the home screen.

Enabling file sharing is finished. Go to "Windows" or "Mac" section below for how to import from the computer.

Windows

- 1** Make a note of the hostname of the HA-N1 displayed in the home screen.
- 2** In Explorer, enter "\\(the HA-N1 hostname)" into the address bar.
- 3** Copy files into the "Share" folder in the HA-N1.

Note: If no shared folder is displayed, wait for 30 seconds and try again.

Importing from Windows PC is finished.

Mac

- 1** Make a note of the IP address of the HA-N1 displayed in the home screen.
- 2** On the Mac, click *Go - Connect to Server....*

3 Enter "smb://(the HA-N1 IP address)" into the server address bar and click *Connect*.

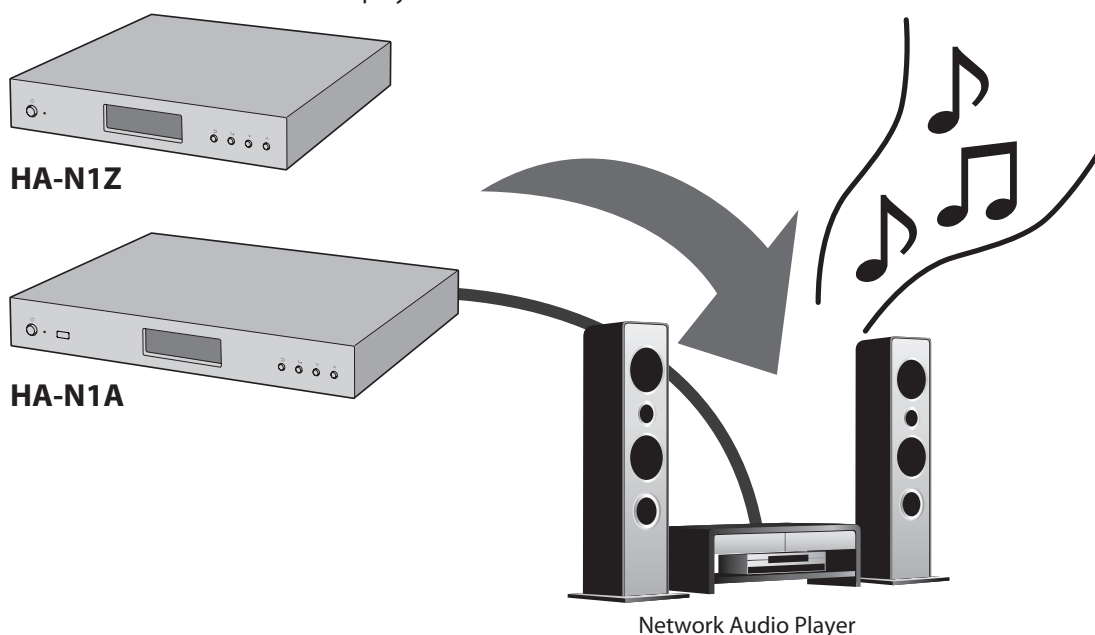
4 Copy files into the "Share" folder in the HA-N1.

Note: If no shared folder is displayed, wait for 30 seconds and try again.

Importing from Mac computer is finished.

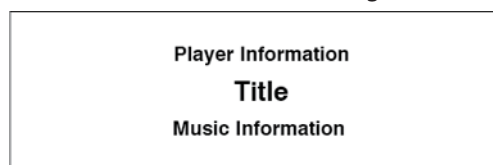
Streaming Music

Imported music files can play from the Network Audio Player. Refer to your Network Audio Player's manual for detailed information on how to play music.



Display Panel While Streaming

When the HA-N1 starts streaming the music files, the display panel will show the music information.



Notes:

- If the music file is playing on a computer, the music information will not be displayed on the display panel.
- Depending on the Network Audio Player, file format, or file tag information, music information may not always be displayed on the display panel.

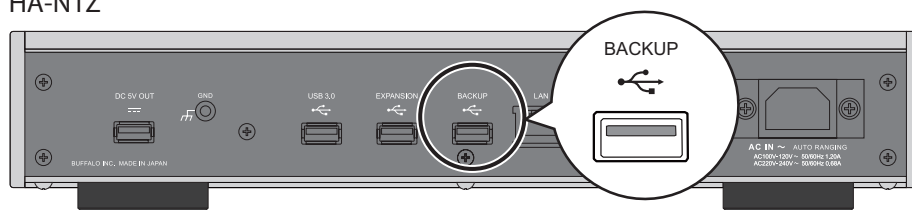
Backing Up and Restoring

Backing Up

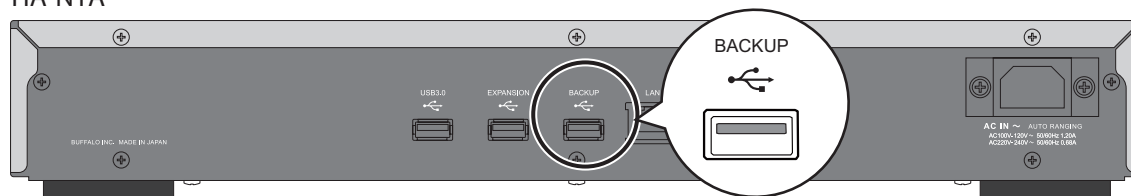
To back up imported music files, follow the procedure below. With this operation, both music files and settings are backed up. Backed up music files can be restored if the files are deleted.

1 Turn on the HA-N1.

- 2** Connect the USB device (sold separately) to the "BACKUP" port.
HA-N1Z

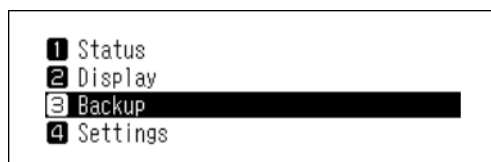


HA-N1A

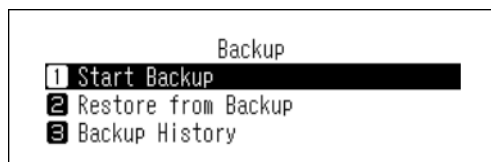


- 3** When the home screen is displayed, press the  button.

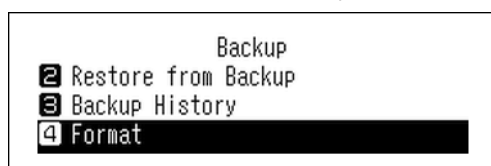
- 4** Press  and select "Backup", then press the  button.



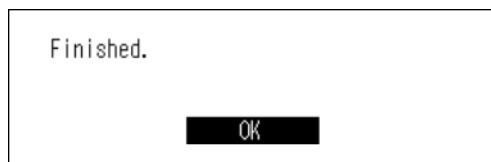
- 5** Select "Start Backup" and press the  button.



Note: To format the USB device, select "Format".



- 6** When "Finished." is displayed, press the  button.



The backup is now finished.

Notes:

- Use only the compatible USB devices listed at www.melco-audio.com.
- Connect only NTFS-formatted or FAT32-formatted USB devices.
- Do not disconnect the USB device connected to "BACKUP" port until the HA-N1 is powered down.
- Backed up data will be saved without deleting the existing data in the USB device.
- Backed up data will be saved in the following folder:

"Anas.bak"-"MAC address"-"backup date and time"-"disk1"

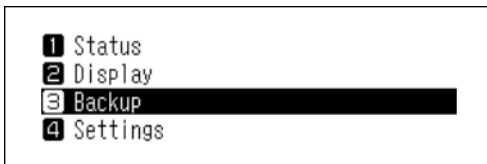
Restoring

To restore the backup data, follow the procedure below. **Restoring from backup will delete all current data on the drive. If needed, back up any data before continuing.**

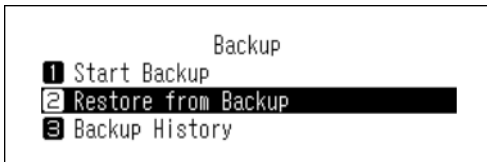
1 Turn on the HA-N1.

2 When the home screen is displayed, press the  button.

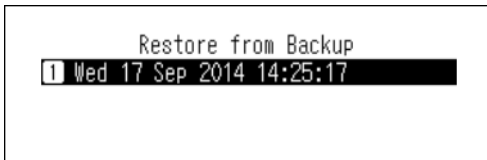
3 Press  and select "Backup", then press the  button.



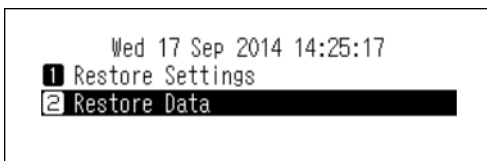
4 Press  and select "Restore from Backup", then press the  button.



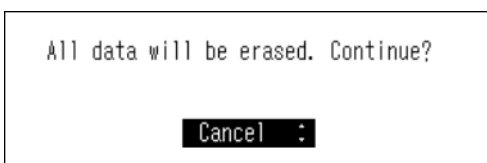
5 Press  and select the date of backup, then press the  button.



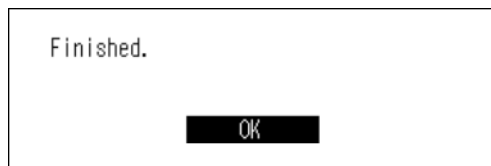
6 Press  and select "Restore Data", then press the  button.



7 The message "All data will be erased. Continue?" will be displayed. Make sure that all files on the drive can be erased before proceeding. To continue restoring the backup data, press  and select "OK", then press the  button.



- 8** When "Finished." is displayed, press the  button. The HA-N1 will automatically restart.



The restoration is finished.

Notes:

- To display the backup history, navigate to *Backup - Backup History*.
- To restore settings, select "Restore Settings" from step 6 above. "All settings will be initialized. Continue?" message will be displayed. Select "OK".

Deleting the Imported Music Files

There are two ways to delete the imported music files. Follow the procedure below.

Formatting the Drive

Format the drive referring the "Formatting Drives" section in chapter 3.

Note: Formatting will delete all data on the drive. If needed, back up any data before continuing.

Deleting Each File Manually

Open the the HA-N1 shared folder from the computer, referring to the "Importing Music Files from a Computer" section above, and delete each file manually.

Chapter 3 Advanced Usage

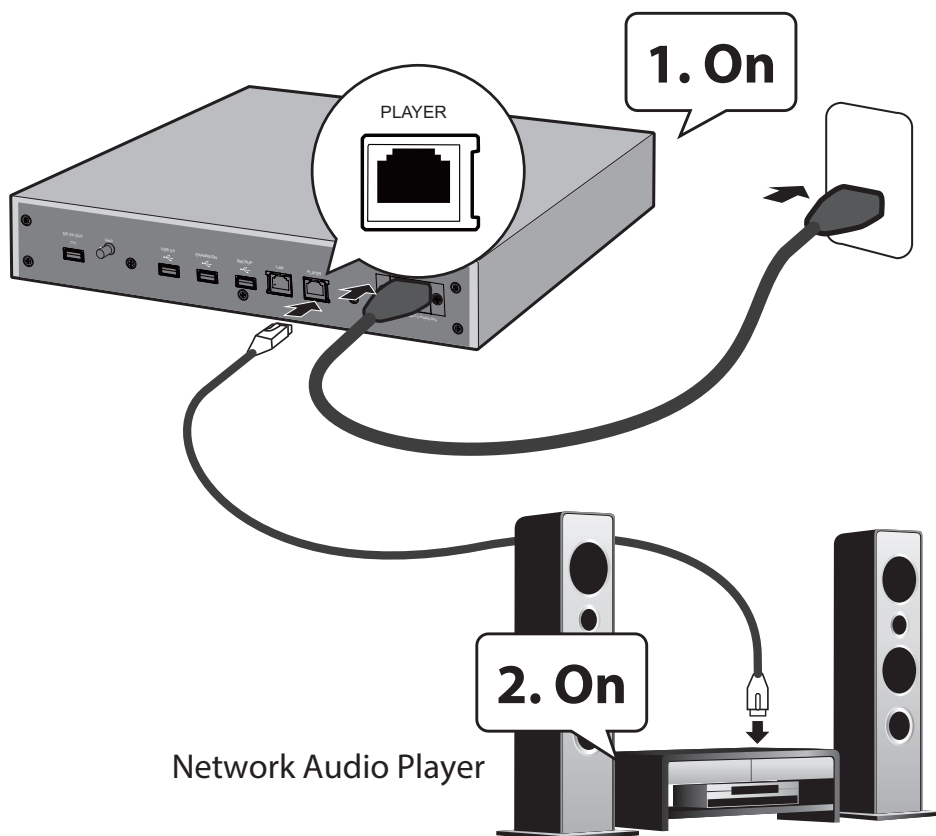
Using Direct Mode

Set the HA-N1 to direct mode if it is directly connected to the Network Audio Player with an Ethernet cable and no other devices are connected to the network. By default, network mode is configured. To configure direct mode, follow the procedure below.

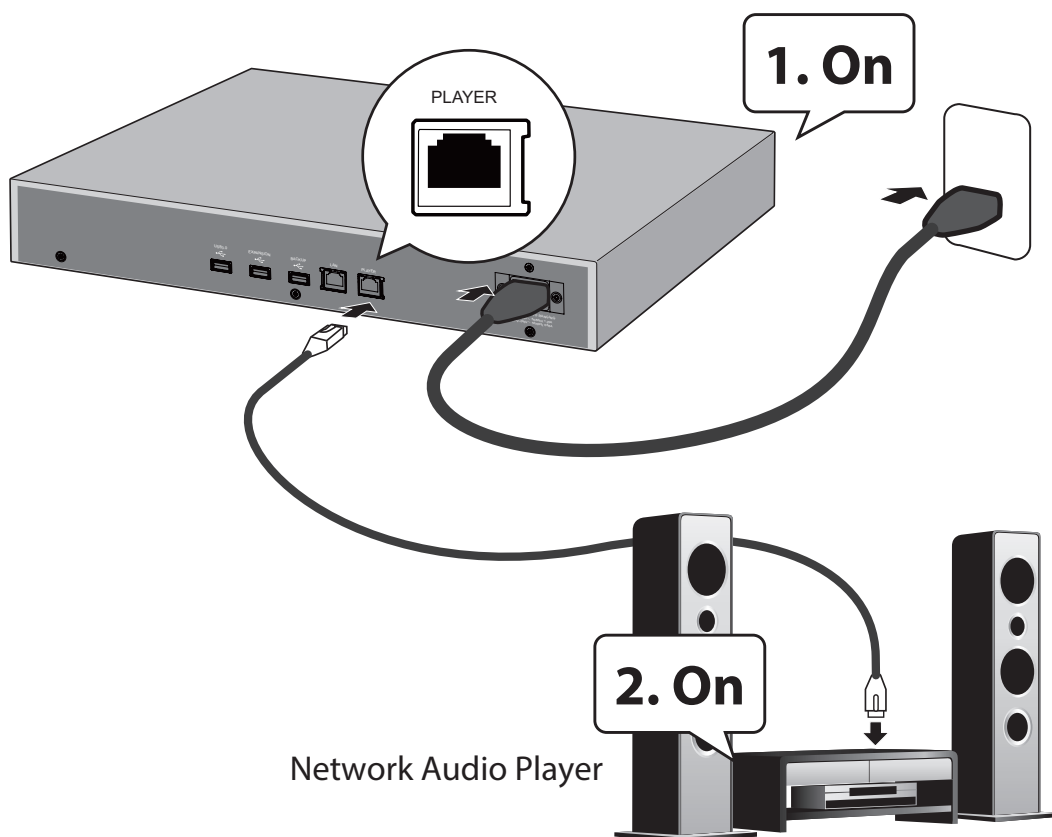
Notes:

- Direct mode is not suitable if your Network Audio Player is operated only via a remote control app on mobile devices.
- In direct mode, the HA-N1 will be the DHCP server that assigns an IP address to the Network Audio Player. Routers cannot be used.
- Files cannot be copied to the HA-N1 from the computer via the network in direct mode. Use USB devices for file copying instead.

HA-N1Z



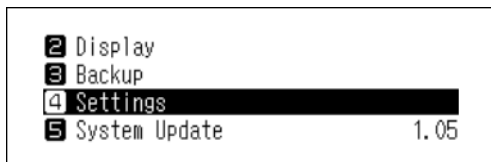
HA-N1A



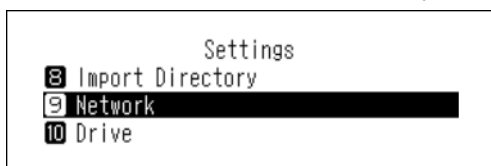
Note: Give the HA-N1 plenty of space for airflow. Do not stack it with other devices that get hot.

- 1** Connect the Network Audio Player to the HA-N1's "PLAYER" port (not "LAN" port) using an Ethernet cable.
- 2** Connect the power cable.
- 3** Turn on the HA-N1 first.
- 4** Turn on the Network Audio Player.
- 5** When the home screen is displayed, press the  button at the front.

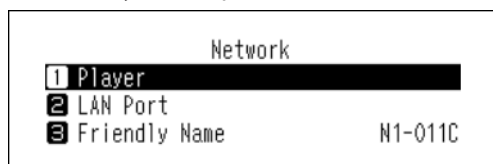
- 6** Press  and select "Settings", then press the  button.



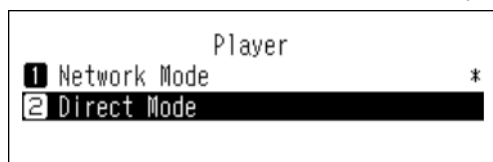
- 7** Press  and select "Network", then press the  button.



- 8 Select "Player" and press the  button.



- 9 Press  and select "Direct Mode", then press the  button.



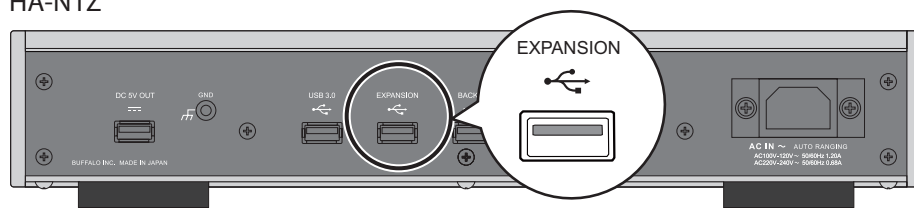
Direct mode is now configured.

Note: To connect the HA-N1 and the Network Audio Player to the network via the router or hub, use network mode instead. Select "Network Mode" at step 9 above to use network mode.

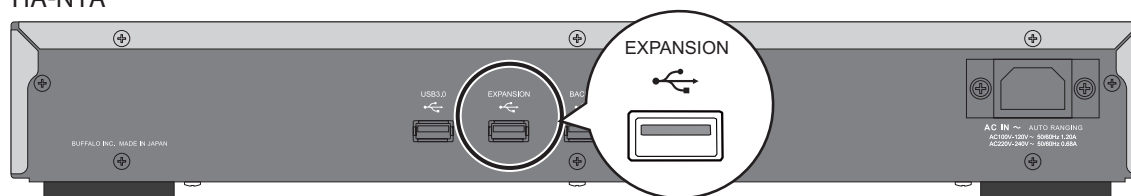
Playing Music Files from USB Devices

Even if music files are not imported from the USB device that is connected to the "EXPANSION" port of the HA-N1, your Network Audio Player can play music files from the USB device.

HA-N1Z



HA-N1A



Notes:

- Use only the compatible USB devices listed at www.melco-audio.com.
- Do not disconnect the USB device connected to "EXPANSION" port until the HA-N1 is powered down.

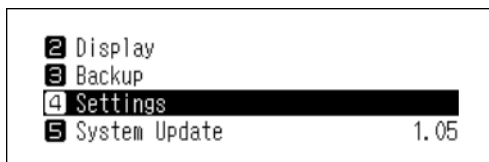
Changing RAID Mode

The HA-N1 series are configured with a spanned array by default.

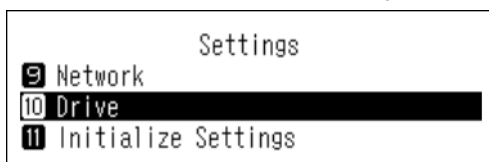
To change the RAID mode from the default, follow the procedure below. **Changing the RAID mode will delete all data on the drive. If needed, back up any data before continuing.**

- 1 Turn on the HA-N1.
- 2 When the home screen is displayed, press the  button.

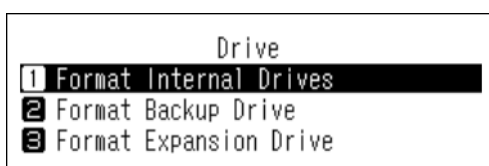
- 3 Press  and select "Settings", then press the  button.



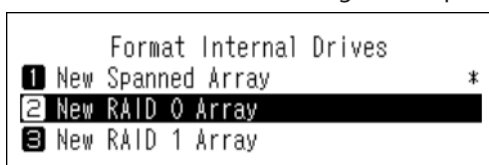
- 4 Press  and select "Drive", then press the  button.



- 5 Press  and select "Format Internal Drives", then press the  button.



- 6 Select the RAID mode to configure and press the  button.



Notes:

- **Spanned**

Combines 2 drives in the HA-N1 into a single array. The usable disk space is the total space of all drives used. Data is written to the first drive, then the second drive once the first drive becomes full. If a single drive in the array fails, then all data in the array is lost.

- **RAID 0**

Combines 2 drives in the HA-N1 into a single array. The usable disk space is the total space of all drives used. This simple RAID mode offers faster performance than a spanned array. If a single drive in the array fails, then all data in the array is lost. RAID 0 offers the least redundancy among the three RAID modes. In terms of saving your data safely, using RAID 0 is not recommended.

- **RAID 1**

Combines 2 drives in the HA-N1 into a mirrored array. The available space in the array is the capacity of a single drive. Identical data is written to each drive. If a drive is damaged, data can be recovered by replacing the damaged drive. As long as one drive in the array remains undamaged, all data in the array can be recovered.

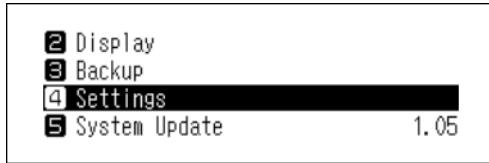
- 7 The message "All data will be lost. Continue?" will be displayed. Make sure that all files on the drive can be erased before proceeding. To continue changing the RAID mode, press  and select "OK", then press the  button.

Formatting Drives

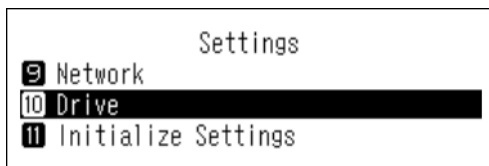
To format internal drives in the HA-N1 or connected USB devices, follow the procedure below. **Formatting will**

delete all data on the drive. If needed, back up any data before continuing.

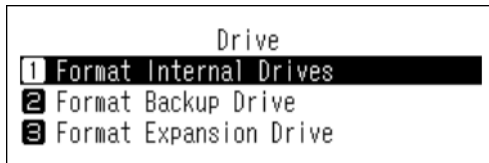
- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button.
- 3** Press  and select "Settings", then press the  button.



- 4** Press  and select "Drive", then press the  button.



- 5** Press  and select the drive to format from internal, backup, or expansion then press the  button.



Note: If "Format Internal Drive" is selected, the current RAID mode and all data will be deleted.

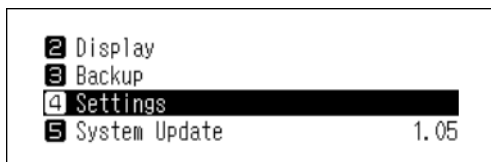
- 6** Press  and select "Format", then press the  button.
- 7** The message "All (backup/expansion drive) data will be lost. Continue?" will be displayed. Make sure that all files on the drive can be erased before proceeding. To continue formatting, press  and select "OK", then press the  button.

Erase Data on the HA-N1 Completely

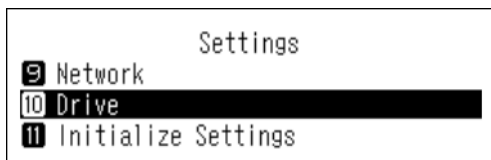
Under some circumstances, data from formatted drives can be recovered. This disk erasure process in this section does a much more thorough job of erasing data. This procedure is recommended for removing all data from a drive in a way that makes it nearly impossible to recover with current tools. All data on the drives is completely erased.

- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button at the front.

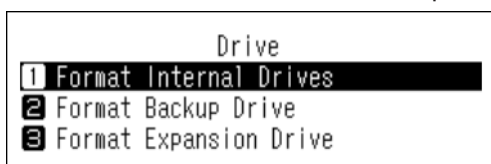
- 3** Press  and select "Settings", then press the  button.



- 4** Press  and select "Drive", then select the  button.



- 5** Press  and select the drive for complete format, then press the  button.



- 6** Press  and select "Erase All Data", then press the  button.

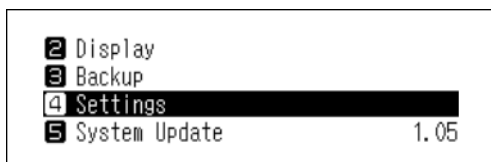
- 7** The message "All (backup/expansion drive) data will be lost. Continue?" will be displayed. Make sure that all files on the drive can be erased before proceeding. To continue formatting, press  and select "OK", then press the  button.

All data on the HA-N1 will be permanently erased.

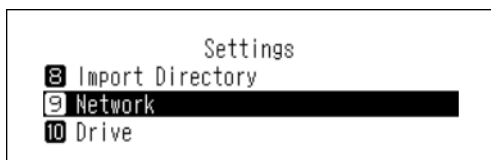
Changing the IP Address

To change the IP address of the HA-N1, follow the procedure below.

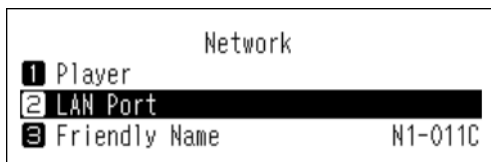
- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button at the front.
- 3** Press  and select "Settings", then press the  button.



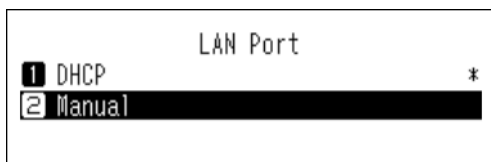
- 4** Press  and select "Network", then press the  button.



- 5** Press  and select "LAN Port", then press the  button.



- 6** Select whether to automatically acquire the IP address from the DHCP server or manually configure it and press the  button.



Notes:

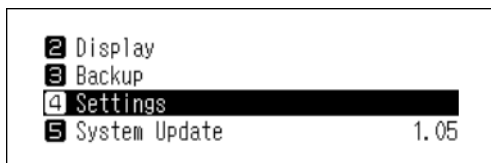
- To obtain the IP address from the DHCP server automatically, the DHCP server on the router should also be enabled.
- If "Manual" is selected, enter the desired IP address, subnet mask, default gateway, and DNS server in the displayed screen.

IP address is now configured properly.

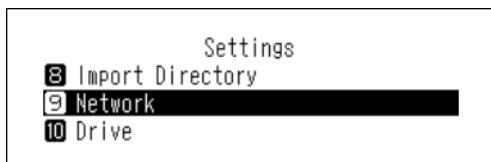
Changing Friendly Name (Hostname)

To change the friendly name (hostname) of the HA-N1, follow the steps below.

- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button at the front.
- 3** Press  and select "Settings", then press the  button.



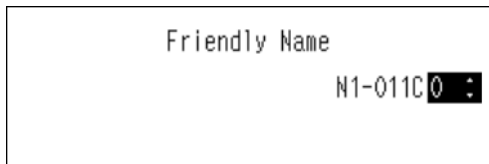
- 4** Press  and select "Network", then press the  button.



- 5** Press  and select "Friendly Name", then press the  button.



- 6** Enter the new friendly name (hostname) using the ∇ and $\wedge$ buttons, then press the $\rightarrow$ button.



Notes:

- Friendly name may contain 0–9, A–Z, and hyphens (-).
- When you press the $\rightarrow$ button, the entered characters are deleted from the right side. To change the friendly name, press the $\rightarrow$ button and delete all characters except for the first, then enter the new friendly name. If you delete all the characters, the display will go back to the previous screen.

- 7** When you press the $\rightarrow$ button, the entered character is determined and another character can be selected. Press the $\rightarrow$ button twice to stop configuring the friendly name.

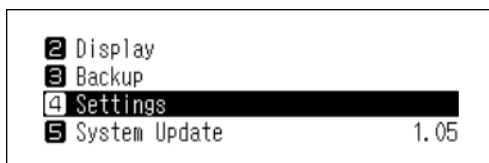
- 8** If "Finished." is displayed, press the $\rightarrow$ button.

- 9** If "Restarting..." is displayed, press the $\rightarrow$ button. The HA-N1 will restart. New friendly name (hostname) is configured.

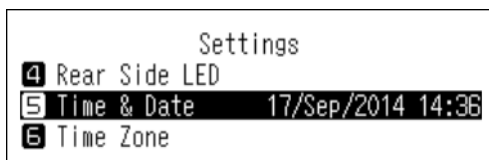
Configuring Date and Time

To configure the time settings, follow the procedure below.

- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the $\rightarrow$ button at the front.
- 3** Press ∇ and select "Settings", then press the $\rightarrow$ button.

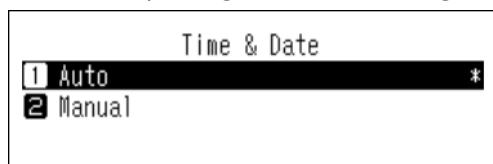


- 4** Press ∇ and select "Time & Date", then press the $\rightarrow$ button.



- 5** Select whether to configure the time settings automatically or manually, then press the $\rightarrow$ button. To

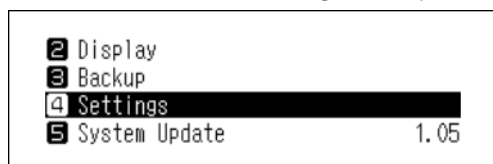
automatically configure the time settings, the HA-N1 should be able to connect to the Internet.



- 6 Follow the instructions on the display.

Time Zone Settings

- 1 Turn on the HA-N1.
- 2 When the home screen is displayed, press the  button at the front.
- 3 Press  and select "Settings", then press the  button.

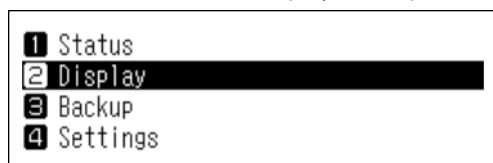


- 4 Press  and select "Time Zone", then press the  button.
- 5 Select the time zone to configure and press the  button.
The time zone setting is changed.

Display and LED Settings

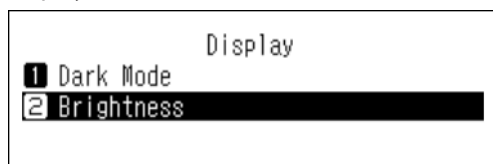
Changing Display Brightness

- 1 Turn on the HA-N1.
- 2 When the home screen is displayed, press the  button at the front.
- 3 Press  and select "Display", then press the  button.

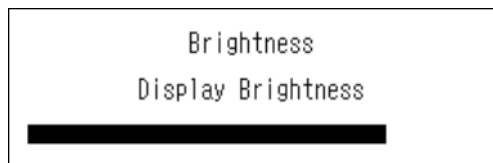


- 4 Press  and select "Brightness", then press the  button. If you select "Dark Mode" on the screen, the display panel turns off. You can also turn off the display panel by pressing and holding the  button for 2 seconds while at the home screen. While the display panel is off, press any button on the front to relight the

display.



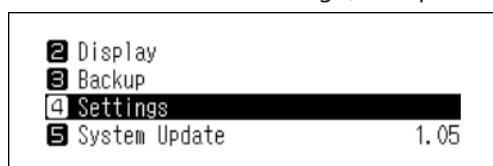
- 5** Press the  or  button to change the brightness. Press  if it's done.



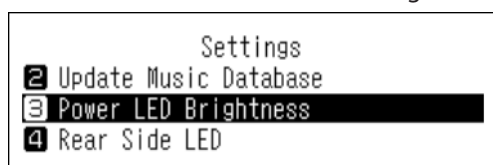
The display settings is finished.

Changing Power LED Brightness

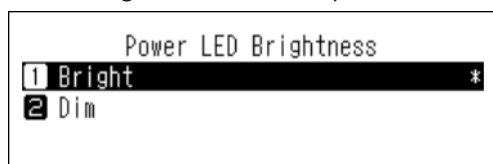
- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button at the front.
- 3** Press  and select "Settings", then press the  button.



- 4** Press  and select "Power LED Brightness", then press the  button.



- 5** Select "Bright" or "Dim", then press the  button.

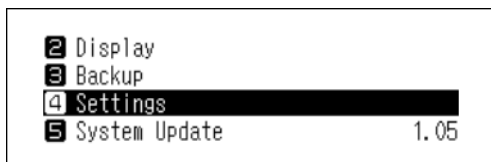


The power LED brightness is now changed.

Turning Off Rear-Side LED

- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button at the front.

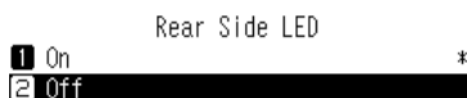
- 3** Press  and select "Settings", then press the  button.



- 4** Press  and select "Rear Side LED", then press the  button.



- 5** Select "Off", then press the  button.

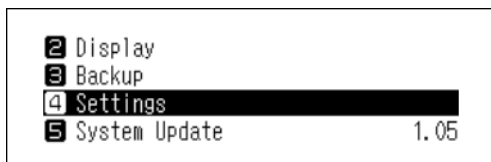


The rear-side LED will extinguish.

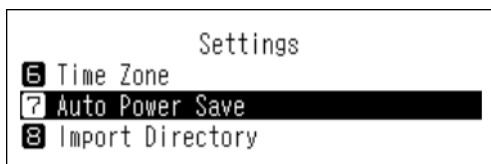
Auto Power Save

If auto power save is enabled, the HA-N1 will automatically power off after music stops playing and a specific amount of time passes. Auto power save is enabled by default, and it helps you save power in case you forget to turn off the device. Auto power save will not shut off the HA-N1 while streaming music, but it may cause the device to power off unexpectedly when idle, depending on the Network Audio Player or music file format. To disable auto power save, follow the procedure below.

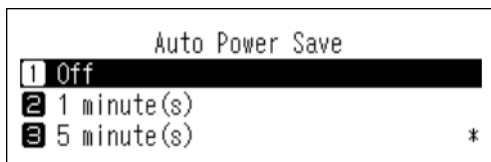
- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button at the front.
- 3** Press  and select "Settings", then press the  button.



- 4** Press  and select "Auto Power Save", then press the  button.



- 5** Select "Off", then press the  button.

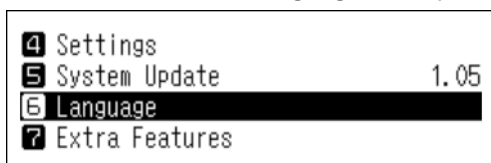


Auto power save is now disabled.

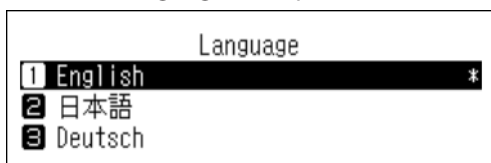
Changing Display Language

To change the display language, follow the procedure below.

- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button at the front.
- 3** Press  and select "Language", then press the  button.



- 4** Select the language, then press the  button.



The display language is now changed.

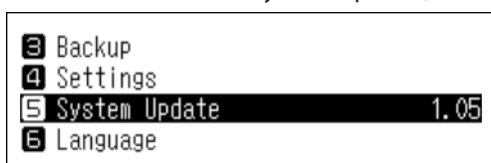
Updating the Firmware

To update the HA-N1's firmware version to the latest one, follow the procedure below.

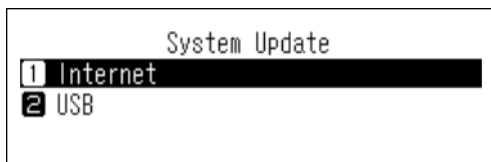
Updating via the Network

Note: To update the firmware via the network, the HA-N1 should be connected to the Internet. If the HA-N1 is in direct mode, use another Ethernet cable and connect it to the LAN port and the router.

- 1** Turn on the HA-N1.
- 2** When the home screen is displayed, press the  button at the front.
- 3** Press  and select "System Update", then press the  button.



- 4** Press  and select "Internet", then press the  button.



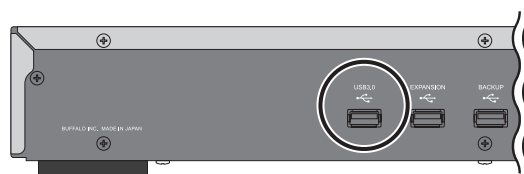
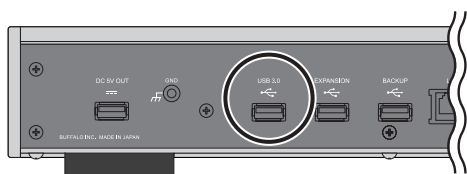
- 5** Follow the instructions on the display.
The system version is now updated.

Updating from USB Device

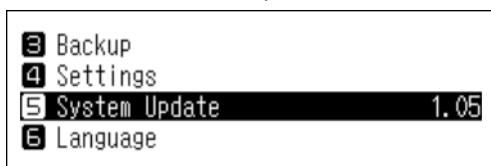
- 1** Download the latest firmware from www.melco-audio.com.
- 2** Extract the downloaded file and copy "audionas_ha_n1_updater.bin" file from the extracted folder to USB device (root directory).
- 3** Connect the USB device to the USB 3.0 port at the rear.

HA-N1Z

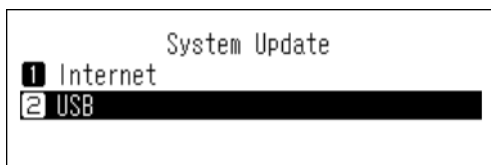
HA-N1A



- 4** Turn on the HA-N1.
- 5** If the importing from USB port screen is displayed, press the  button at the front.
- 6** When the home screen is displayed, press the  button at the front.
- 7** Press  and select "System Software", then press the  button.



- 8** Press  and select "USB", then press the  button.



- 9** Follow the instructions on the display.
The system version is now updated.

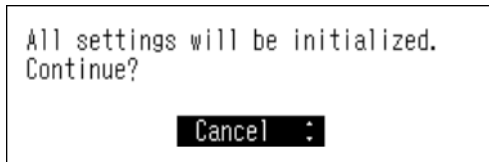
Restoring Factory Defaults

To initialize the HA-N1 to its factory default settings, follow the procedure below.

- 1 Turn on the HA-N1 while pressing the  button. After the "MELCO" logo disappears, let go of the  button. The setting initialization screen will be displayed.

Note: If you go to *Settings - Initialize Settings* on the display panel, the same screen will be displayed.

- 2 Press  and select "OK", then press the  button.



The device will be initialized. The operation above only initializes the settings. Data will not be affected.

Chapter 4 Appendix

Menu List

From the front display panel, the following options are available.

Status

Internal Drives	Displays the total capacity, used capacity, and usage percentage of the internal drives.
External Drives	Displays the total capacity, used capacity, and usage percentage of the connected external drive.
Songs	Displays the number of imported music files.
Music Database	Displays the current status of the imported music file database after it is scanned.
Time & Date	Displays current time and date.
Network	LAN: Displays the network settings of the LAN port labelled "LAN", such as IP address, MAC address, link speed, and the Internet connection status. Player: Displays the network settings of the LAN port labelled "PLAYER", such as IP address, MAC address, and link speed.
System Software	Displays the version of the firmware installed on the HA-N1.
Media Server	Displays the media server's version.

Display

Dark Mode	Turns off the display panel. If you press any button on the HA-N1 while the display panel is off, the display panel turns on.
Brightness	Changes the brightness of the display panel.

Backup

Start Backup	Backs up the music files in the HA-N1 to the USB device that is connected to the port labelled "BACKUP".
Restore from Backup	Restore Settings: Restores the settings from the USB device. Restore Data: Restores the backup music files in the USB device to the HA-N1.
Backup History	Displays the backup history of any previous backups.
Format	Formats the USB device that is connected to the "BACKUP" port.

Settings

SMB File Sharing

Sets to "On" when copying music from the computer.

Update Music Database

Updates the music database of the imported music files. If the music files are not listed properly on the Network Audio Player, update the music database.

Power LED Brightness

Changes the brightness of the power LED at the front.

Rear Side LED

Configure whether to turn off the rear "LAN" and "PLAYER" port LEDs.

Time & Date

Configure the time settings of the HA-N1.

Auto	Configure the time settings automatically from the Internet.
Manual	Configure the time settings manually.

Time Zone

Configure the time zone for date and time settings.

Auto Power Save

Configure whether to shut down the HA-N1 automatically if the music stops playing and a specific time passes. You can select from "Off", "1 minute", "5 minutes", and "15 minutes".

Notes:

- The HA-N1 will not be powered down while playing music.
- If the HA-N1 is accessed from Network Audio Players or computers, it will not be powered down even after the specified time passes.

Import Directory

Configure whether to create a folder that contains the import date in the folder name when importing. The default setting is "Date".

Date	Creates a folder to store the imported files from the connected USB device. The folder name will contain the import date. Imported files may contain duplicates in the HA-N1 if the same files are on the USB device.
All	Imports all updated files to the root directory of the shared folder on the HA-N1. If a file has no updated information, that file will not be imported.

Network

Player	Select "Network Mode" if the HA-N1's "LAN" port is connected to the router. If directly connecting the HA-N1 and the Network Audio Player, select "Direct Mode".
LAN	Configure whether to automatically acquire the IP address from a DHCP server or enter manually. If "Manual" is selected, enter the IP address, subnet mask, default gateway, and DNS server.
Friendly Name	Change the friendly name (hostname) of the HA-N1.

Drive

Format Internal Drives	Formats the internal drives of the HA-N1. When formatting, you can change the current RAID mode to a spanned, RAID 0, or RAID 1 array. If you select "Erase All Data", all data on the drives will be completely erased. Data removed this way will be nearly impossible to recover with the current tools.
Format Backup Drive	Formats the USB device connected to the "BACKUP" port. If you select "Erase All Data", all data on the drives will be completely erased. Data removed this way will be nearly impossible to recover with the current tools.
Format Expansion Drive	Formats the USB device connected to the "EXPANSION" port. If you select "Erase All Data", all data on the drives will be completely erased. Data removed this way will be nearly impossible to recover with the current tools.

Initialize Settings

Restores the HA-N1 settings to the factory default.

System Update

Internet	Updates the HA-N1's firmware to the latest version via the Internet. Refer to the "Updating via the Network" section in chapter 3 for instructions to update the firmware.
USB	Updates the HA-N1's firmware to the latest version using a USB device that contains the firmware file. Refer to the "Updating from USB Device" section in chapter 3 for instructions to update the firmware.

Language

English	Changes the display language to English.
日本語	Changes the display language to Japanese.
Deutsch	Changes the display language to German.
Français	Changes the display language to French.

Error Codes

If the following error codes are display on the HA-N1's display panel, try the corrective actions.

Error	Corrective Action
010-012 No backup found.	Make sure the USB device that contains backup data is connected to the "BACKUP" port.
020 Friendly name is too short.	The friendly name has not been configured. Enter the friendly name.
021 Friendly name is too long.	The entered friendly name (hostname) must be shorter than 20 characters.
030 Not enough space on drive.	Delete extra files in the copy target device.
031 Some files not copied.	Files in the copy source device may be corrupted.
033 I/O error.	The connected USB device may be malfunctioning. Connect the USB device to a computer and run a disk scan.

034 Could not erase data.	The drive to be formatted may be malfunctioning.
040, 041 Updater not found.	Make sure the HA-N1 is connected to the Internet or the updater is saved on the connected USB device.
042–044 Update error.	The updater file may be corrupted. Try the update again, or download a new updater file from www.melco-audio.com .
091 No external drive available.	Make sure the USB device is connected to the HA-N1.
094 No response from NTP server.	Put the HA-N1 on the network that can access the Internet.
101 Failed to mount.	The USB device may be malfunctioning or the disk format is not supported.
102 Failed to dismount.	The USB device is possibly being accessed at this time.
103 Could not format drive.	The formatted device may be malfunctioning.
104 Could not form partition.	Device may be malfunctioning or is not supported.
110 Internal drive not found.	Try rebooting the HA-N1. If the message is still displayed, contact Buffalo technical support for assistance.
111 Usable internal drive not found.	
112 Internal drive not found.	
113 Internal drive 1 not found.	
114 Internal drive 2 not found.	
120 USB drive not found.	The connected USB device may be malfunctioning. Try another USB device.
121 USB drive not mounted.	
130 No expansion drive available.	Make sure the USB device that contains backup data is connected to the "EXPANSION" port.
140 No backup drive found.	Make sure the USB device that contains backup data is connected to the "BACKUP" port.
141 Backup drive not mounted.	
150 Could not create RAID.	If the message appears, contact Buffalo technical support for assistance.
151 Could not rebuild RAID.	
153 Could not rebuild system.	
154 Could not rebuild data.	

Default Settings

The HA-N1 is configured with the following default settings.

Display Panel	Brightest
SMB File Sharing	On
Power LED Brightness	Bright
Rear Side LED	On
Auto Power Save	5 minutes
Player	Network Mode
LAN	DHCP
Friendly name (hostname)	N1-XXXX (X stands for the last four digits of MAC address)
RAID Mode	Spanned

Specifications

Check www.melco-audio.com for information about the latest products and their specifications.

LAN Port	Interface	IEEE 802.3ab (1000BASE-T) IEEE 802.3u (100BASE-TX) IEEE 802.3 (10BASE-T)
	Transfer Speed	1000 Mbps Full duplex (auto-negotiation) 100 Mbps Full duplex/Half duplex (auto-negotiation) 10 Mbps Full duplex/Half duplex (auto-negotiation)
	Number of Ports	2 ports (supports auto-MDIX)
	Connector Type	RJ-45 8-pin
	Protocol	TCP/IP
	Access Method	CSMA/CD
USB Port	HA-N1Z: USB 3.0 port (Series A) x 3 HA-N1A: USB 2.0 port (Series A) x 1 (front), USB 3.0 port (Series A) x 3 (rear)	
Internal Hard Drive	If a hard drive in the HA-N1 malfunctions, contact Buffalo technical support for assistance.	
Dimensions (W x H x D)	HA-N1Z: 350 x 65 x 370 mm; 13.8 x 2.4 x 14.6 in HA-N1A: 435 x 62 x 352 mm; 17.1 x 2.4 x 13.8 in	
Weight	Approx. 7.0 kg; 15.4 lb	
Power Supply	AC 100–240 V 50/60 Hz	
Power Consumption (Max.)	60 W	
Operating Environment	Temperature: 5–35°C; 41–95°F Humidity: 20–80% (no condensation)	

Chapter 5 Regulatory Compliance Information

For Customers in Europe

EU Declaration of Conformity



Deutsch

Verwenden Sie ausschließlich die Kabel und Zubehörteile, die im Lieferumfang enthalten sind. Andere Zubehörteile oder Kabel dürfen nur dann verwendet werden, wenn dies in der Dokumentation ausdrücklich vorgeschrieben ist.

English

Only use the cables and accessories that are included in the package. Don't use other accessories or cables unless specifically instructed to in the documentation.

Français

Utilisez uniquement les câbles et accessoires inclus dans ce package. N'utilisez aucun autre accessoire ou câble sauf instruction spécifique de la documentation.

CB

Norsk

Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare.

For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel-TV nettet.

Svenska

Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet.